Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 8. (Canceled)

9. (Currently Amended) A data transfer procedure for transferring <u>data of a data</u> sequence to a receiving entity data of a data sequence from a transmitting entity comprising a higher data handling layer and a lower data handling layer, the procedure comprising:

transferring down from [[the]] a higher data handling layer of the transmitting entity to [[the]] a lower data handling layer of the transmitting entity a plurality of data unit units of the data sequence, wherein each of the plurality of data units has a relative position in the data sequence which data unit comprises a plurality of segments each having a respective position in the data unit:

buffering, at the higher data handling layer of the transmitting entity, the plurality of data units;

transmitting on a first transmission link from the lower data handling layer of the transmitting entity each of the plurality of segments data units to the receiving entity;

buffering, at the lower data handling layer of the transmitting entity, the plurality of data units;

receiving at the lower data handling layer of the transmitting entity an acknowledgement of receipt of at least one <u>later positioned one of the</u> plurality of segments <u>data units</u> from the receiving entity;

sending a confirmation of receipt of the at least one <u>later positioned one</u> of the plurality of <u>segments data units</u> from the lower data handling layer <u>of the transmitting entity</u> to the higher data handling layer <u>of the transmitting entity</u> based on the acknowledgement;

discarding in-sequence any buffered data units at the higher data handling layer of the transmitting entity based on received confirmations;

determining that the first transmission link is broken;

purging the buffered plurality of data units at the lower data handling layer of the transmitting entity upon determining the first transmission link is broken;

wherein the higher data handling layer of the transmitting entity is arranged to retain maintaining the buffering of the at least one later positioned one of the plurality of data unit until such time as an units and an earlier positioned one of the plurality of data units at the higher data handling layer of the transmitting entity, upon determining the first transmission link is broken, if at least an implied acknowledgement of receipt of the at least one earlier positioned one of the plurality of data units segments in the sequence is not received from the receiving entity at the lower data handling level layer of the transmitting entity;

determining by the higher data handling layer that an earlier segment relative to the at least one of the plurality of segments in the sequence is not confirmed as being received by the receiving entity;

establishing a second transmission link between the transmitting entity and the receiving entity; and

retransmitting, based on the determining, the entire data unit via [[a]] the second transmission link between the transmitting entity and the receiving entity, the at least one earlier positioned one of the plurality of data units and the at least one later positioned one of the plurality of data units buffered at the higher data handling layer of the transmitting entity.

- 10. (Currently Amended) A data transfer procedure as claimed in claim 9, wherein the higher data handling layer of the transmitting entity comprises a store for storing [[the]] data unit units, and further comprising maintaining buffered [[the]] data unit units is retained in the store until [[the]] a corresponding acknowledgement of receipt has been received, when the corresponding data unit is then removed from the store.
- 11. (Currently Amended) A data transfer procedure as claimed in claim 9, wherein the lower data handling layer comprises a store for storing data pertaining to the position of each segment transmitted therefrom, wherein receiving the acknowledgement further comprises receiving an indication of the respective position of the at least one later positioned one of the plurality of segments data units.

12. (Canceled)

13. (Currently Amended) A data transfer procedure as claimed in claim [[4]] 9, wherein the first transmission link is determined to be broken by:

the transmitting entity waiting for a period of time for [[the]] <u>an</u> acknowledgement of receipt of [[the]] at least one of the plurality of segments <u>data units</u> from the lower data handling layer of the receiving entity;

retransmitting the at least one of the plurality of data units;

repeating the waiting and the retransmitting of the at least one of the plurality of data units; and

deciding that the first transmission link is broken after the waiting and the retransmitting of the at least one of the plurality of data units have been repeated a number of times.

14. (Canceled)

- 15. (Previously Presented) A data transfer procedure as claimed in claim 9, wherein the transmitting entity is a mobile station for a GPRS system.
- 16. (Previously Presented) A data transfer procedure as claimed in claim 15, wherein the higher data handling layer is an SNDCP layer and the lower data handling layer is an LLC layer.

17. - 24. (Canceled)

- 25. (Currently Amended) A transmitting entity for transmitting data of a data sequence [[for]] to a receiving entity in a communications system, the transmitting entity comprising:
 - a higher data handling layer;
 - a lower data handling layer;

means for transferring down from the higher data handling layer of the transmitting entity to the lower data handling layer of the transmitting entity a plurality of data unit units of the data sequence, wherein each of the plurality of data units has a relative position in the data sequence which data unit comprises a plurality of segments each having a respective position in the data unit;

means for buffering, at the higher data handling layer of the transmitting entity, the plurality of data units;

means for transmitting on a first transmission link from the lower data handling layer each of the plurality of segments data units to the receiving entity;

means for buffering, at the lower data handling layer of the transmitting entity, the plurality of data units;

means for receiving at the lower data handling layer an acknowledgement of receipt of at least one <u>later positioned one</u> of the plurality of segments <u>data units</u> from the receiving entity;

means for sending a confirmation of receipt of the at least one <u>later positioned one</u> of the plurality of <u>segments</u> <u>data units</u> from the lower data handling layer to the higher data handling layer based on the acknowledgment;

means for discarding in-sequence any buffered data units at the higher data handling layer of the transmitting entity based on received confirmations;

means for determining that the first transmission link is broken;

means for purging the buffered plurality of data units at the lower data handling layer of the transmitting entity upon determining the first transmission link is broken;

means for eausing the higher data handling layer to retain maintaining the buffering of the at least one later positioned one of the plurality of data unit until such time as an units and an earlier positioned one of the plurality of data units at the higher data handling layer of the transmitting entity, upon determining the first transmission link is broken, if at least an implied acknowledgement of receipt of the at least one earlier positioned one of the plurality of data units segments in the sequence is not received from the receiving entity at the lower data handling layer of the transmitting entity;

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means for determining by the higher data handling layer that an earlier segment relative to the at least one of the plurality of segments in the sequence is not confirmed as being received by the receiving entity;

means for establishing a second transmission link between the transmitting entity and the receiving entity; and

means for retransmitting, based on the determining, the entire data unit via [[a]] the second transmission link between the transmitting entity and the receiving entity, the at least one earlier positioned one of the plurality of data units and the at least one later positioned one of the plurality of data units buffered at the higher data handling layer of the transmitting entity.

- 26. (Currently Amended) A transmitting entity as claimed in claim 25, wherein the higher data handling layer of the transmitting entity comprises a store for storing [[the]] data unit units, and further comprising maintaining buffered [[the]] data unit units is retained in the store until [[the]] a corresponding acknowledgement of receipt has been received, when the corresponding data unit is then removed from the store.
- 27. (Currently Amended) A transmitting entity as claimed in claim 25, wherein the lower data handling layer comprises a store for storing data pertaining to the position of each segment-transmitted therefrom, wherein receiving the acknowledgement further comprises receiving an indication of the respective position of the at least one later positioned one of the plurality of segments data units.
 - 28. (Canceled)
- 29. (Currently Amended) A transmitting entity procedure as claimed in claim [[28]] 25, wherein the means for determining that the first transmission link is broken is operable to:
- [[to]] wait for a period of time for [[the]] an acknowledgement of receipt of [[the]] at least one of the plurality of segments data units from [[the]] a lower data handling layer of the receiving entity;

retransmit the at least one of the plurality of data units;

[[to]] repeat the waiting and the retransmitting of the at least one of the plurality of data units; and

[[to]] decide that the first transmission link is broken after the waiting and the retransmitting of the at least one of the plurality of data units have been repeated a number of times.

30. (Canceled)

- 31. (Previously Presented) A transmitting entity as claimed in any of claim 25, wherein the transmitting entity is a mobile station for a GPRS system.
- 32. (Previously Presented) A transmitting entity as claimed in claim 31, wherein the higher data handling layer is an SNDCP layer and the lower data handling layer is an LLC layer.
- 33. (New) A transmitting entity for transmitting data of a data sequence to a receiving entity in a communications system, comprising:
 - a higher data handling layer;
 - a lower data handling layer;

wherein the higher data handling layer is arranged to transfer down to the lower data handling layer a plurality of data units of the data sequence, wherein each of the plurality of data units has a relative position in the data sequence;

wherein the higher data handling layer is arranged to buffer the plurality of data units;

wherein the lower data handling layer is arranged to transmit on a first transmission link each of the plurality of data units to the receiving entity;

wherein the lower data handling layer is arranged to buffer the plurality of data units;

wherein the lower data handling layer is arranged to receive an acknowledgement of receipt of at least one later positioned one of the plurality of data units from the receiving entity;

wherein the lower data handling layer is arranged to send a confirmation of receipt of the at least one later positioned one of the plurality of data units to the higher data handling layer based on the acknowledgement;

wherein the higher data handling layer is arranged to discard in-sequence any buffered data units based on received confirmations;

wherein the transmitting entity is arranged to determine that the first transmission link is broken;

wherein the lower data handling layer is arranged to purge the buffered plurality of data units at the lower data handling layer of the transmitting entity upon determining the first transmission link is broken;

wherein the higher data handling layer of the transmitting entity is arranged to maintain the buffering of the at least one later positioned one of the plurality of data units and an earlier positioned one of the plurality of data units at the higher data handling layer of the transmitting entity, upon determining the first transmission link is broken, if at least an implied acknowledgement of receipt of the at least one earlier positioned one of the plurality of data units in the sequence is not received from the receiving entity at the lower data handling level layer of the transmitting entity;

wherein the lower data handling layer is arranged to establish a second transmission link between the transmitting entity and the receiving entity; and

wherein the lower data handling layer is arranged to retransmit, via the second transmission link, the at least one earlier positioned one of the plurality of data units and the at least one later positioned one of the plurality of data units buffered at the higher data handling layer of the transmitting entity.

- 34 (New) A transmitting entity as claimed in claim 33, wherein the higher data handling layer of the transmitting entity comprises a store for storing data units, and wherein the higher data handling layer of the transmitting entity is further arranged to maintain buffered data units in the store until a corresponding acknowledgement of receipt has been received, when the corresponding data unit is then removed from the store.
- 35. (New) A transmitting entity as claimed in claim 33, wherein the acknowledgement further comprises an indication of the respective position of the at least one later positioned one of the plurality of data units.

36. (New) A transmitting entity as claimed in claim 33, wherein the transmitting entity is arranged to determine that the first transmission is broken by:

waiting for a period of time for an acknowledgement of receipt of at least one of the plurality of data units from the lower data handling layer of the receiving entity;

retransmitting the at least one of the plurality of data units;

repeating the waiting and the retransmitting of the at least one of the plurality of data units; and

deciding that the first transmission link is broken after the waiting and the retransmitting of the at least one of the plurality of data units have been repeated a number of times.

- 37. (New) A transmitting entity as claimed in claim 33, wherein the transmitting entity is a mobile station for a GPRS system.
- 38. (New) A transmitting entity as claimed in claim 37, wherein the higher data handling layer is an SNDCP layer and the lower data handling layer is an LLC layer.
- 39. (New) A transmitting entity as claimed in claim 33, wherein the higher data handling layer of the transmitting entity is arranged to maintain the buffering of the at least one later positioned one of the plurality of data units and an earlier positioned one of the plurality of data units based on a lower data handling layer of the receiving entity being restricted to passing complete data units in sequence up to a higher data handling layer of the receiving entity.
- 40. (New) A data transfer entity as claimed in claim 39, wherein the at least one earlier positioned one of the plurality of data units comprises a plurality of segments, further comprising:

wherein the lower data handling layer of the transmitting entity is arranged to receive, from the lower data handling layer of the receiving entity, an acknowledgement for at least one of the plurality of segments;

wherein the transmitting entity is arranged to determine that the first transmission link is broken is based on not receiving, from the lower data handling layer of the receiving entity, an acknowledgement for at least one remaining one of the plurality of segments; and

wherein the transmitting entity is arranged to establish the second transmission link by exchanging messages between the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity causing both the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity to purge any buffered data units.

- 41. (New) A data transfer procedure as claimed in claim 9, wherein maintaining the buffering of the at least one later positioned one of the plurality of data units and an earlier positioned one of the plurality of data units at the higher data handling layer of the transmitting entity is based on the lower data handling layer of the receiving entity being restricted to passing complete data units in sequence up to the higher data handling layer of the receiving entity.
- 42. (New) A data transfer procedure as claimed in claim 41, wherein the at least one earlier positioned one of the plurality of data units comprises a plurality of segments, further comprising:

receiving, from the lower data handling layer of the receiving entity, an acknowledgement for at least one of the plurality of segments at the lower data handling layer of the transmitting entity;

wherein determining that the first transmission link is broken is based on not receiving, from the lower data handling layer of the receiving entity, an acknowledgement for at least one remaining one of the plurality of segments at the lower data handling layer of the transmitting entity; and

wherein establishing the second transmission link further comprises exchanging messages between the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity causing both the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity to purge any buffered data units.

- 43. (New) A data transfer entity as claimed in claim 25, wherein the means for maintaining the buffering of the at least one later positioned one of the plurality of data units and an earlier positioned one of the plurality of data units at the higher data handling layer of the transmitting entity is based on the lower data handling layer of the receiving entity being restricted to passing complete data units in sequence up to the higher data handling layer of the receiving entity.
- 44. (New) A data transfer entity as claimed in claim 43, wherein the at least one earlier positioned one of the plurality of data units comprises a plurality of segments, further comprising:

means for receiving, from the lower data handling layer of the receiving entity, an acknowledgement for at least one of the plurality of segments at the lower data handling layer of the transmitting entity;

wherein the means for determining that the first transmission link is broken is based on not receiving, from the lower data handling layer of the receiving entity, an acknowledgement for at least one remaining one of the plurality of segments at the lower data handling layer of the transmitting entity; and

wherein the means for establishing the second transmission link further comprises means for exchanging messages between the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity causing both the lower data handling layer of the transmitting entity and the lower data handling layer of the receiving entity to purge any buffered data units.